

## The steric hardening and structuring of paraffinic hydrocarbons in bitumen

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### Abstract

© 2016 Taylor & Francis Group, LLC. The formation of ordered structures of macro- and microcrystalline waxes during cooling from the melt of bitumen was observed using temperature-modulated differential scanning calorimetry. This process develops in time. It is found that steric hardening of bitumen (gradual hardening at room temperature) is related to the processes of formation of ordered structures of bitumen waxes.

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### Keywords

Bitumen, calorimetry, macro- and microcrystalline waxes, penetration, temperature-modulated DSC